S/070/63/008/002/017/017 E039/E435

AUTHORS:

Yamzin, I.I., Kuz'minov, Yu.S., Staritsyn, V.Ye.,

Mal'tsev, Ye.I.

TITLE:

A neutron diffractometer

PERIODICAL: Kristallographiya, v.8, no.2, 1963, 302-304

TEXT: This instrument differs from the earlier miniature diffractometer made at the Institute of Crystallography in that it is universal and intended for the investigation of poly and single crystals. The mechanical loading requirement in the design is stringent, e.g. the axial load on the sample stage is about 2 tons. A fairly detailed description of the apparatus is given. Its main dimensions are: length of baseplate 2800 mm, width 1050 mm, height 550 mm, distance from center of sample stage to the end of the cantilever 2000 mm, distance from the center of the stage to the end of the counterweight 650 mm. Overall weight without the electromagnet is about 3 tons. The base is of cast iron with parallel ways for the displacement of the carriage. The latter is moved by means of a worm drive. Ball bearings are used throughout to facilitate operation and ensure long service. All Card 1/3'

A neutron diffractometer

S/070/63/008/002/017/017 E039/E435

control is remote except for the reversal of the drive and displacement of the carriage. It has been used with the BBP-M (VVR-M) reactor at the Physico-technical Institute. A collimated beam of neutrons is incident on a monochromator consisting of a single crystal plate of lead cut at an angle of 6° to the (111) plane; dimensions 100 x 175 x 10 mm, before entering the diffractometer. The whole of the neutron beam from the channel to the sample is contained in a borated-paraffin shield with lead bricks outside. The shield thickness is about 1 m. A CHMO-5 (SNMO-5) counter placed in a cylindrical channel in borated paraffin is used as a neutron detector on the carriage of the diffractometer. It is used in conjunction with a monitoring counter to correct for fluctuations in the intensity of the primary beam. The resolution $\Delta \lambda/\lambda = 0.035$ for $\lambda = 1.13$ Å. Results obtained from a polycrystalline sample of yttrium ferrite are given. The sample size is diameter 20 mm and length 100 mm. There are 2 figures.

ASSOCIATIONS: Institut kristallografii AN SSSR (Institute of Card 2/3 Crystallography AS USSR) Fiziko-tekhnicheskiy

Λ neutron	diffractometer	s/070/63/008/002/017/017 E039/E435	• •
	institut AN SSSR (P	hysico-technical Institute	
SUBMITTED:	October 1, 1962		
Card 3/3			

YAMZIN, I.I.; SIZOV, R.A.

Double coordinate neutron diffractometer. Kristallografiia 9 no.6:946-948 N-D 164. (MIRA 18:2)

1. Institut kristallografii AN SSSR.

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AUTHOR; Elzev, R. A.; Yamzin, I. L.	s 7		
TTTLE: The effect of particle size on extin	etion in neutron diffraction	· ·	
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L 24377-66 EVI (m)/EVA(d)/I/EVP(t) IJP(z)ACC NR: AP6010980 SOURCE CODE: UR/0056/66/050/003/0595/0604 AUTHORS: Yamzin, I. I.; Sizov, R. A.; Perckalina, T. M.; Zalesskiy, A. V. Zheludev, I. S.; ORG: Institute of Crystallography, Academy of Sciences SSSR (Institut kristallografii Akademii nauk SSSR) TITLE: Spin ordering and magnetocrystalline anisotropy in single crystals of BaCo Fe 18-x 027 ferrites Zhurnal eksperimental noy 1 teoreticheskoy fiziki, v. 50, SOURCE: no. 3, 1966, 595-604 TOPIC TAGS: ferrite, single crystal, magnetic anisotropy, neutron diffraction, nuclear spin, Curle point, temperature dependence, spin ABSTRACT: This is a continuation of earlier work by the authors (ZhETF v. 46, 1985, 1964). In this paper new data are presented on the magnetic anisotropy energy of the ferrite system under discussion. The crystals were grown by the Verneuil method and were the same as

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ACC NR: AP6010980

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used in the earlier investigation. In view of the fact that the ferrites investigated exhibit various types of magnetic anisotropy at low temperatures, the authors used a neutron diffraction method to investigate the influence of the cobalt ions on the positions of the spin ordering axis in these crystals in the temperature range from 77K to the Curie temperature. The temperature dependence of the magnetic anisotropy constants was investigated in the same range of temperatures and compared with the theory. The same samples were used to obtain neutron diffraction patterns as were used in the investigation of the magnetic anisotropy. The results show that the spin directions coincide with the directions of the total magnetization vectors of the crystals. The data also indicate that the experimental results can be fully reconciled with a theoretical formula deduced by Ye. A. Turov from the phenomenological theory of spin waves (Fizicheskiye svoystva magnitouporyadochennykh kristallov [Physical Properties of Mangetically Ordered Crystals], AN SSSR, 1963), without need to make allowance for any particular structure model. Orig. art. has: 7 figures, 3 formulas, and 3 tables.

SUB CODE: 20/ SUBM DATE: 250ct65/ ORIG REF: 003/ OTH REF: 009

Card 2/2

APPROVED FOR RELEASE: 09/01/2001 CIA-RDP

CIA-RDP86-00513R001962030004-6"

IJP(c) JD EWT(m)/T/EWP(t)/ETI L 29785-66 SOURCE CODE: UR/0020/66/168/001/0090/0093 AP6015089 ACC NR: Sizov, R. A.; Yamzin, I. I. AUTHOR: ORG: Institute of Crystallography, Academy of Sciences, SSSR (Institut kristallogra fii Akademii nauk SSSR) TITLE: Neutron diffraction study of the magnetic structure of hexagonal ferrites of the CoxW system SOURCE: AN SSSR. Doklady, v. 168, no. 1, 1966, 90-93 TOPIC TAGS: neutron diffraction, ferrite, cobalt compound, barium compound, iron compound, magnetic property structure, crystal, polycrystal, nuclear spin ABSTRACT: In order to determine the spin ordering in ferrites of the $\mathtt{Co}_x\mathtt{W}$ system (BaCox2+Fe2-x2+Fe169+O21), the authors carried out a neutron diffraction analysis on single and polycrystals with compositions x = 0, 0.5, 1.0, 1.5, and 1.75, in the range from 77 to 770°K. The correct values of the magnetic contributions to the diffraction pattern and absolute values of the saturation magnetization were obtained. The model of spin ordering in its general features and the angle between UDC: 539

Card 1/2

L 29785-66

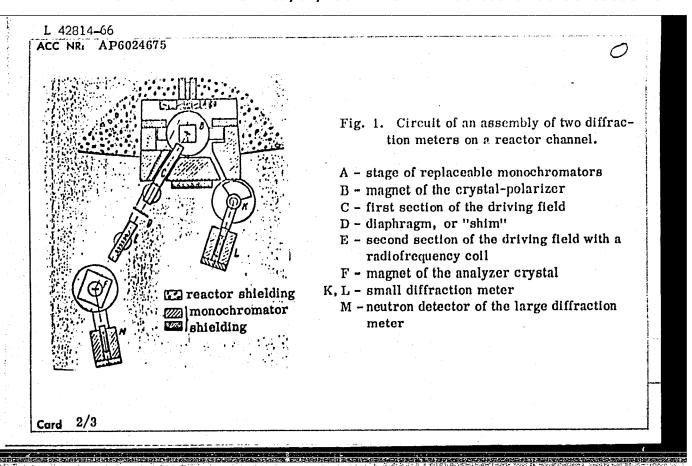
ACC NR: AP6015089

the spin axes and axis c were determined by analyzing the neutron diffraction patterns of polycrystalline specimens. Additional information was obtained from observations of the temperature dependence of the intensity of magnetic reflections from single crystall specimens. The paper was presented by Academician Belov, N. V., 20 Sep 65. Authors thank T. M. Perekalina and R. A. Vaskanyan for providing the specimens, Yu. Z. Nozik for constant interest in the work and useful suggestions, and Prof. J. Bacon for a helpful discussion of the results. Orig. art. has: 2 figures and 2 tables.

SUB CODE: 20/ SUBM DATE: 07Sep65/ ORIG REF: 003/ OTH REF: 007

Card 2/2 W

42814-66 EWT [m] ACC NRI AP6024675 SOURCE CODE: UR/0070/66/011/004/0695/0698 AUTHOR: Abov, Yu. G.; Aleshko-Ozhevskiy, O. P.; Yermakov, O. N.; Yamzin, I. I. ORG: Institute of Crystallography, AN SSSR (Institut kristallografii AN SSSR) TITLE: The generation of a beam of polarized monochromatic neutrons SOURCE: Kristallografiya, v. 11, no. 4, 1966, 695-698 TOPIC TAGS: neutron beam, reactor neutron, neutron polarization, nuclear reactor component, neutron reaction, thermal neutron, magnetic property ABSTRACT: In recent years, investigations of magnetic properties of a substance have made extensive use of polarized thermal neutrons. Heretofore, the Soviet Union had only installations on which the polarized neutrons were generated by reflection from a magnetized cobalt mirror. However, many problems require a polarized beam of monochromatic neutrons. In this article, the authors describe an assembly developed at the ITEF GK IAE jointly with the Institute of Crystallography, AN SSSR (Institut kristallografii AN SSSR). The circuit of the installation is shown in Fig. 1. There is sometimes a need to have a beam of neutrons with an opposite polarization. The authors used the radiofrequency method for the reorientation of spin orientation. A value of 0.98 ± 0.02 was obtained for the spin reorientation probability. Card 1/3 UDC: 548.7



CIA-RDP86-00513R001962030004-6"

APPROVED FOR RELEASE: 09/01/2001

L 42814-66

ACC NR: AP6024675

3

Measurements of the polarization and of the probability of its reorientation in the center and at the edge of the beam (+ 15 mm from the center) agreed. The authors express their sincere gratitude to V. A. Lyubimtsev, P. M. Shishkin, and S. F. Dubinin for assistance in making the measurements and assuring the operation of the equipment. Orig. art. has: 4 figures and 2 formulas.

SUB CODE: 18/ SUBM DATE: 14Nov64/ ORIG REF: 006/ OTH REF: 005/ ATD PRESS: 5667

Card 3/3 Sell

SHAMONIN, Yu.Ya.; YAN, S.A.

Solvation of paramagnetic ions in alcohol aqueous solutions studied by means of nuclear magnetic resonance of high resolution. Dokl. AN SSSR 152 no.3:677-679 S *63. (MIRA 16:12)

1. Fiziko-tekhnicheskiy institut Kazanskogo filiala AN SSSR. Predstavleno akademikom A. Ye. Arbuzovym.

SHAMONIN, Yu.Ya.; YAN, S.A.

Solvation of Cu , Mn and Cr ions in alcohol-water solutions studied by the method of nuclear magnetic resonance. Dokl. AN Arm. SSR 38 no.5:289-293 '64. (MIRA 17:6)

l. Fiziko-tekhnicheskiy institut Kazanskogo filiala AN SSSR i TSentral'naya nauchno-issledovatel'skaya fiziko-tekhnicheskaya laboratoriya AN Armyanskoy SSR. Predstavelno chlenom-korresponden AN Armyanskoy SSR N.M.Kocharyanom.

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YANA ARON

Country: USSR

Category: Forestry. Forest Management.

Abs Jour: RZhDiol., No 1.1, 1958, No 48745

Author : Yana, Aron

Inst : Moscow Forest Technology Institute

Title : Spruce Increment by Growth and Development Classes.

Orig Pub: Nauchn. tr. Mosk. lesotekhn. in-ta, 1957, vyp. 5,

83-88

Abstract: These observations were made at Sverdlovsk forest range of the Shchelkovo Experimental Training Leskhoz. The age of the plantation was 70 years; its composition was 10 Spruce Aspen; density - 1.0. The soil was turf - slightly podzolic light clayey. It was found that the outward morphological character-

istics of the trees, on which the classification was

Card : 1/2

Country: USSR

Category: Forestry. Forest Management.

Abs Jour: RZhDiol., No 11, 1958, No 48745

rais production and comparison of the comparison

APPROVED FOR RELEASE: 09/01/2001 CIA-RDP86-00513R001962030004-6"

based, correspond to the rate of current increment. Regardless of the great density and age of the plantation, 45.1% of the trees had not passed the culminating point of the growth increment. The article gives tables on the current increment by height and diameter, by growth and development classes for the past 5 years and for the 5 years preceding them. Observations confirm that the old-stage trees with declining growth increment are felled and the young-stage trees (according to V.G. Nesterov system) are retained, the productivity and quality of the plantations rise. Their viability and resistance to diseases also increase. -- V.V. Protopopov

Card : 2/2

- A-2 - 1 - 3

YANA, ARON, Cand Tech Sci — (diss) "Investigation of the process of mechanizing soil treatment in forests under conditions existing in the Stalingrad, Orenburg, and Moscow Oblasts," Mos ow, 1960, 20 pp, 160 cop. (Moscow Forest Management (Lesotekh) Institute) (KL, 42-60, 115)

YANACH, K. [Janac, K.] (Praga) Solution of probability problems using simulation. Avtom. i telem. (MIRA 17:2) 25 no.1:83-90 Ja '64.

CIA-RDP86-00513R001962030004-6"

APPROVED FOR RELEASE: 09/01/2001

L 23316-66 SOURCE CODE: BU/2503/65/013/001/0193/0200 IR. AT6004211 ACC NR: AUTHOR: Yanachkova, Iv.; Danchev, Iv.; Petrov, P., Stefanov, D.; Ivanov, S.; Dzhoglev, D.; Bizheva, L. CRG: none TITLE: Influence of impurities on the semiconductor properties of thermistors composed of MnO2-Co203-Ni203 SOURCE: Bulgarska akademiya na naukite. Fizicheski institut. Izvestiya na Fizicheskiya institut s ANEB, v. 13, no. 1, 1965, 193-200 TOPIC TAGS: thermistor, electric property, resistor, semiconductivity ABSTRACT: Heat-sensitive resistors with a negative temperature coefficient are obtained from metal oxides in a ratio of MnO2-60%, Co203-29.7% and Ni203-1.3%. The oxide mixture is doped with solutions of Li₂CO₃, Cu(NO₃)₂, CsCl, CeCl₃, Ce(SO₄)₂ compounds of concentrations of the order of 10^- 6, 10^- 5, 10^{-4} , 10^{-3} , 10^{-2} , 10^{-1} , centrations of the order of 10^- 6, the metal activator. The obtained mixture is wet-milled Card 1/2

L 23316-66 ACC NR: AT6004211

dried at 80C and then dry-milled again. The electrical properties of the thermistors obtained by pressing, sintering at 1150C and again at 120C for 200 hours are investigated. By increasing the concentration of the activator the resistance R20 of the samples activated by tion of the activator the resistance R20 of the samples activated by Li⁺ and Cu²⁺ decrease from the order of 1 to 3.5, while the R20 of the samples activated with Csl⁺, Ce³⁺ and Ce⁴⁺ showed no significant those activated with Csl⁺, Ce³⁺ and Ce⁴⁺ showed no significant changes. The thermistors have a temperature coefficient u₂₀. The changes. The thermistors have a temperature coefficient u₂₀. The changes. The thermistors have a temperature produced by small amounts spinel CoMn₂0₄. No structural changes were produced by small amounts of activators. Orig. art. has: 2 figures and 4 tables. [Based on author's abstract]

SUB CODE: 09/ SUBM DATE: none ORIG REF: 002/ SOV REF: 001/ OTH REF: 004/

Card 2/2 2C

SOURCE CODE: BU/2503/65/013/C01/0185/0192 NR: AT6004210 AUTHOR: Stefanov, D.; Danchev, Iv.; Yanachkova, Iv.; Petrov, P. Ivanov, S.; Dzhoglev, D.; Bizheva, L. ORG: none TITLE: X-Ray structural studies of thermistors obtained from the three-component systems MnO2-Ni2O3-Co2O3 and MnO2-Ni2O3-ZnO SOURCE: Bulgarska, akademiya na naukite. Fizicheski institut. Izvestiya na Fizicheskiya institut s ANEB, v. 13, no. 1, 1965, 185-192 TOPIC TAGS: thermistor, spinel, mineral, x ray investigation ABSTRACT: Thermistors baked at a temperature of 1150C, which have been studied in detail in earlier papers are the object of detailed X-ray structural investigations. The X-ray structural data obtained have shown that after baking new chemical compounds are formed of the type of spinels. According to the chemical composition of the mixtures studied, different spinels are formed. The cubic spinel Card 1/2

L 23315-66 ACC NR: AT6004210

NiMn₂O₄ has been established for the mixture I and for the two oxide systems. The intermediary mixtures, II to V included, are represented by cubic spinels of a variable cation composition. Mixture VII is represented by the tetragonal spinels CoMn₂O₄ and ZnNnO₂. On the basis of data from the literature on the position of the metal cations in NiHn₂O₄ and CoNnO₄ an attempt has been made to elucidate the distribution of the cations in the spinel structures of thermistors studied by the authors. Orig. art. has: 3 figures and 2 tables. [Based on author's abstract]

SUB CODE: 09, 07/SUBM DATE: none ORIC REF: 002/ SOV REF: 004/

Card 2/2 ,)

BU/0011/65/018/003/0227/0230 IJP(c) I 30155-66 EWP(t)/ETI SOURCE CODE: ACC NR: AP6020620 AUTHOR: Kurchatov, M.; Yanakiyev, N. \mathcal{B} ORG: Institute of General and Inorganic Chemistry, BAN TITLE: Study of iron oxide reduction by solid carbon using methods for the simultaneous observation of the kinetic and temperature curves SOURCE: Bulgarska akademiya na naukite. Doklady, v.18, no.3, 1965, 227-230 TOPIC TAGS: chemical reduction, thermal analysis, chemical kinetics, iron oxide, carbon Although several researchers studied the reduction of iron oxides by solid carbon (see, e.g., A. K. Ashin, S. T. ABSTRACT: \ Rostovtsev, Izv. vysshikh uchobnykh zavedeniv. Kn. M., 1964, No 4, 11), The kinetics and the mechanism of this process are still subject to differing interpretations. The majority of the approaches does not take into account the real temperature of the reduced sample although the reaction proceeds with a considerable endothermic effect. Consequently, the authors carried out a simultaneous determination of the reduction rate by the amount and composition of the outgoing gases, and of the thermal effects by a modified method of differential thermal analysis. Results are shown in graphic form. This article was presented by Academician D. Ivanov on 30 October 1964. [Orig. SUBM DATE: 300ct64 / ORIG REF: 005 / OTH REF: 001 / SOV REF: 00 art. in Russianl [JPRS]

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L 32217-66 EWP(t)/ETI ACC NR. AP6020814 BU/0011/65/018/006/0541/0544 SOURCE CODE: AUTHOR: Kurchatov, M. S.; Lambiyev, D.; Yanakiyev, N., ORG: Institute of General and Inorganic Chemistry, BAN TITLE: Influence of thermal effects of reactions on the course of carbon reduction of iron oxides. 11 SOURCE: Buigarska akademiya na naukite. Doklady, v. 18, no. 6, 1965, 541-544 TOPIC TAGS: thermal effect, iron oxide, thermogravimetric analysis, chemical reduction, carbon, reaction temperature ABSTRACT: Correct conclusions_concerning the kinetics and mechanisms of chemical processes may be extracted from experimental data only if the experiments are carried out at constant temperature and concentration. This is an admittedly difficult task. In one of their earlier papers, two of the authors (Lambiyev, Kurchatov, Dokl. BAN, 17, 1964, No 8, 729) showed during thermogravimetric studies of reduction of copper exides by carbon oxide and hydrogen that the actual temperature of the sample may rise by several hundreds of degrees during the reduction process. It became perfectly clear that the S shaped appearance of the kinetic curves is basically caused by self-heating. The present paper describes similar tests involving iron oxides and solid carbon. After a preliminary work using the same equipment as the one described in the reference, the authors developed a new instrument oven described in a separate article (Kurchatov, Stal', 23, 1964, No 3, 212). A comprehensive presentation of the results is followed by a discussion of the possible explanations. Results indicate that the course of reduction is significantly affected by the heat effects of the reaction, the mass of the reacting mixture, and the heating rate. This paper was presented by Academician D. Ivanov on 19 February 1965. Orig. art. has: 1 figure. / JPRS/ SUB CCDE: 07, 20/SUBM DATE: 19Feb65/ ORIG REF: 002/ SOV REF: 001

YAHAHIS, S.V. The conscious and automatic elements in skills and habits. Vop.

(MIRA 10:3) psikhol.3 no.1:144-148 Ja-F 157.

1. Leningradskiy gosudarstvennyy pedagogicheskiy institut im. A.I. Gertsens.

(Habit) (Ability)

CIA-RDP86-00513R001962030004-6" **APPROVED FOR RELEASE: 09/01/2001**

MAKAROV, A.D.; YANATAROV, R.A.

Relationship between the dimensional wear of cutting tools and the diameter of boring. Stan. 1 instr. 35 no.6:28-29

Je *64

(MIRA 17:8)

YANAK, Ya. [Janak, J.]; GRZHIVNACH, M. [Hrivnac, M.]

Presence of indole in naphthalene cil and its products. Koks i khim.

(MIRA 18:8)

1. Akademiya nauk Chekhoslovatskoy Sots a isticheskoy Respubliki, analiticheskaya laboratoriya.

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YAKOVLEV, Nikolay Nikolayevich, prof.; KOROBKOV, Anatoliy Vital'yevich; YANANIS, Stanislav Vladimirovich; BERZIN, A.A., red.; MANINA, M.P., tekhn. red.

[Physiologica] and biochemical principles in the theory and methodology of sports training] Fiziologicheskie i biokhimicheskie osnovy teorii i metodiki sportivnoi trenirovki. Izd.2., perer. skie osnovy teorii i metodiki sportivnoi otoliitova. 405 p. i dop. Moskva, Gos.izd-vo "Fizkul'tura i sport," 1960. 405 p. (MIRA 14:12)

(IHYSICAL EDUCATION AND TRAINING)

CIA-RDP86-00513R001962030004-6" **APPROVED FOR RELEASE: 09/01/2001**

YANASH, G. G.

Tree Planting

Appearance of interspecie mutual aid in forest planting on dry dune sands of the Buzuluk pine forest. Les. khoz. 5 no. 2 (41), 1952

Monthly List of Russian Accessions, Library of Congress, JULY 1952. Unclassified.

YANAT'YEV, P. B.

584

opyt mekhanizatsii i elektrifizkatsii soukhoza "metallist" Stalinskogo svinovodmoltresra Ministerstva sovkhozov USSR. / m. /, 1954. 8 s 20 sm. (M-vo sel'skogo khozyastva SSSR. M-vo sovkhozov SSSR. Vsesoyuz. nouch inzh-tekhn. o-vo energetikov. Nauch.-tekhn. soveshchaniye po mekhanizatsii i elektrifikatsii trudoyemkikh protsessoy v zhivornovodstve). 1.000 ekz. Bespl.--/54-54646/ p 636.0025 (47.715)

SO: Knizhraya Letopis, Vol. 1, 1955

"APPROVED FOR RELEASE: 09/01/2001

CIA-RDP86-00513R001962030004-6

ACC NR: AP600L981

UR/0031/66/000/001/0079/0085 SOURCE CODE:

AUTHOR: Kenonidi, Kh. D.; Yenetkhenov, F. N.

ORG: none

TITLE: Magnetic observatories in Kazakhstan

Vestnik, no. 1, 1966, 79-85 SOURCE: AN KazSSR.

earth magnetic field, ionospheric physics, magnetic field TOPIC TAGS:

measurement

ABSTRACT: The first magnetic observatory in Kazakhstan started operation in April, 1963, in the Alma-Ata district. In July, 1964, construction was started on the Karagandinsk magnetic observatory and, at the start of December, on the third magnetic observatory in Kazakhstan -the Kezalinsk observatory. All these observatories form part of complex ionosphere stations which, in turn, are subordinated to the Ionospheric volume Section of the AN KazSSR. The observatories are constructed in the form of three "pavilions," and are completely built with domestic equipment. The article contains a description of each of these three stations. The Alma-Ata observatory is located at a distance of 20 kilometers from the city, in the mountains at an altitude of 1300 meters above sea level.

Card 1/2

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ACC NR: AP6004981

The magnetic complex is in the form of three pavilions, the distance between the centers of which is 25-27 meters. The article gives a diagram of the electrical circuit and recordings of actual measurements. The Karagandinsk magnetic observatory is located in the Bereznyaki district, 20 kilometers from the city and 70 kilometers from Karaganda. The Kazalinsk magnetic observatory is located 3 kilometers from the city of Novo-Kazalinsk. The article gives the same type of data on these last two observatories as for the Alma-Ata establishment. Orig. art. has: 5 figures.

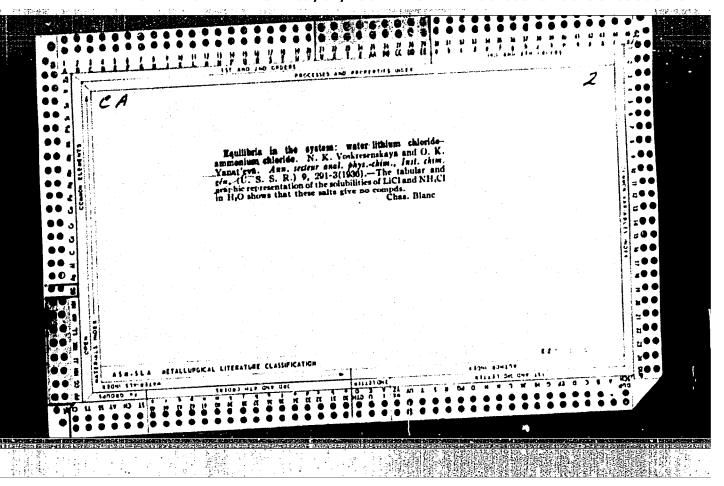
SUB CODE: C8/ SUBM DATE: none.

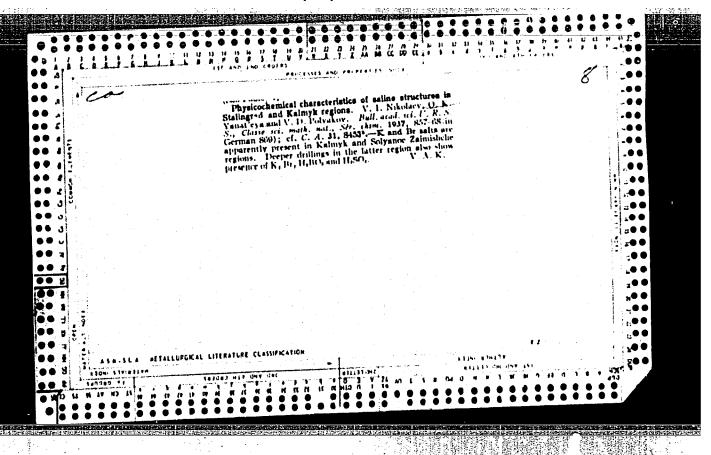
card 2/2 7 B

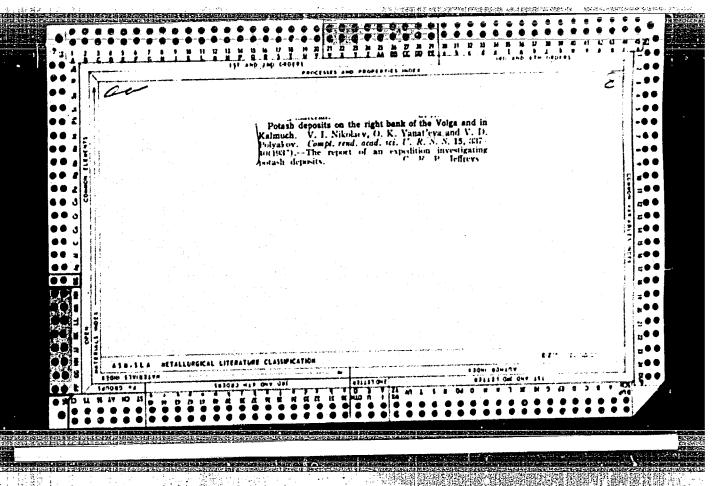
YANAT'YEVA, O.K.; ORLOVA, V.T.; KUZNETSOV, V.G.

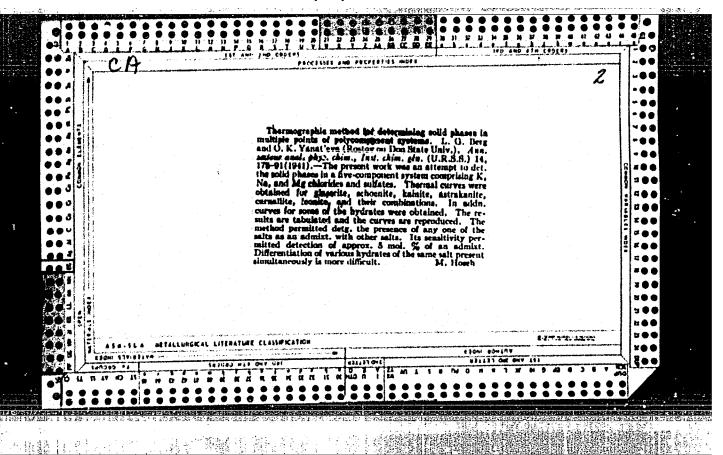
Nature of the glaserite phase in the system K2SO4 - Na2SO4 - H2O. Zhur. neorg. khim. 8 no.7:1756-1765 Jl 163. (MIRA 16:7)

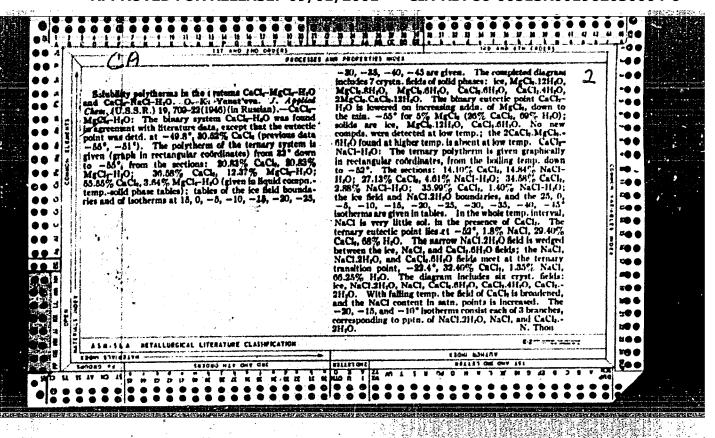
(Alkali metal sulfates) (Aphthitalite)

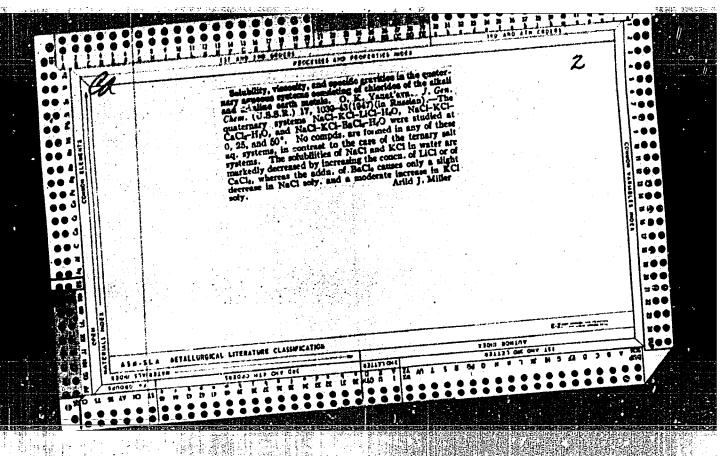












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CIA-RDP86-00513R001962030004-6

YAHATIYEVA, O. K.

PA 64774

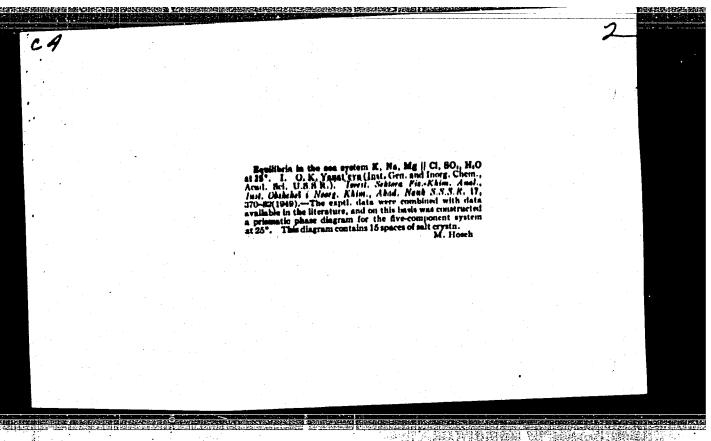
USSR/Oceanology Sea Water Jan 1948

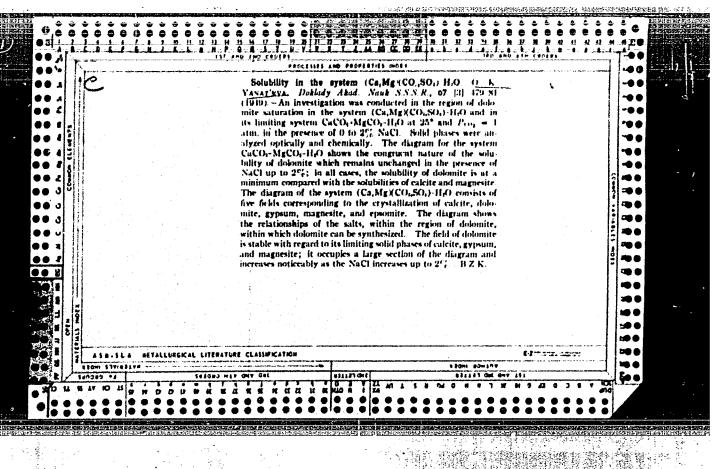
"Research on the Equilibrium at 55° C of Ma, Mg (C1, S04 - H20 in a Marine System," O. K. Yanat'yeva, Inc. of Gen and Inorg Chem, Acad Sci USSR, 9 pp

"Zhur Prik Khim" Yol XXI, No l

Full studies of the five-component marine system: Answers obtained for problems of the crystallization of sea water, vacuum vaporization, and purification of brine during the process of obtaining manganese chloride products. Submitted 28 Apr 1947.

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Solubility of doloming in aqueous salt solutions.

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Vanaterya. The solvy of dolomite and suitates at 22 stores fine and in the researce of up suitates at 23 stores fine and in the researce of up suitates at 25 stores fine and in the studed compans, were obtained. First the solvy of dolomite were contained in most but not be studed compans, which is the solvy of dolomite stores fine and the solvy of dolomite stores fine solvy of the solvent stores fine solvent stores fine solvent stores fine solvent stores fine stores fine solvent stores fine stores fine solvent stores fine stores fine solvent stores fine solvent stores fine solvent stores fine solvent stores fine stores fine solvent stores fine solvent stores fine s

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CIA-RDP86-00513R001962030004-6

YANATIYEVA, O. K.

"The Hydrated Form of Potassium Sulfate," by M. P. Shul'gina, O, S. Kharchuk, and O. K. Yanatiyeva, Doklady Akad. Nauk SSSR, 73, 1950 p. 507-510.

K2SO1.H2O is commonly supposed not to exist. New detns. of the polytherm of the aystem K₂SO₁-H₂O from 30° downwards, with mixts. differing by 0.05-0.15% K₂SO₁, showed a new crystn. branch beginning with a sharp inflection, at 9.7°, toward the temp. axis, and ending in the eutectic point at -1.8°. The transition point at 9.7° corresponds to 8.18% K₂SO₁, the eutectic at -1.8° to 7.09%. These results were confirmed by isothermal detay at 2.5° and 6° which gave notated accounts accounts at 2.5° and 6° which gave notated accounts accounts a constant accounts accounts and accounts accounts accounts a constant accounts accounts accounts and accounts account accounts account accounts account account accounts accounts account accounts accounts accounts accounts accounts account accounts accounts accounts account accounts accounts accounts account accounts accounts accounts account account accounts account account accounts account accounts account accounts account accounts account accounts account account account accounts account account account account account accounts account account accounts account acco mal deths. at 2, 5, and 60, which gave points lying exactly on the new branch. By cross-inoculation of 2 systems satd. at 60, one of which had to be the stable, the other the metastable one, the new branch was shown to correspond to the stable system, the "old", i.e., the uninflected branch, with a eutectic point at -1.90, being unstable. Crystals taken from the stable system lost 8.97-9.20% on drying at 150°; by the device of crystn. in the presence of KI, permitting a correction for the mother liquor adhering to the crystals, the H2O content was detd., more accurately, to 9.20%; the theoretical value for $K_2SO_{\parallel}.H_2O$ is 9.32%. Under the microscope, crystals of $K_2SO_{\parallel}.H_2O$ are clearly distinguishable from $K_2SO_{\parallel}.$ Finally, thermography of crystals of $K_2SO_{\parallel}.H_2O$ gave an arrest at = 1.8 (eutectic fusion) and a transition at 9.80 (dehydration).

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Effect of mechanical pressure on reactions between salts in the solid state. L. G. Herg, O. K. Yanat'eva, and R. M. Savitskil. Dohlody Abad. Nauk S.S.S.R. 75, 283-6 (1950).—Pinely ground mixts. of the salts were subjected, at room temp., to a pressure of 6000 atm. for 5 min. (1) In the systems CaCO₁ + MgCO₂ and K₂SO₄ + 2MgSO₂.H₂O₃ thermograms taken before and after application of the pressure proved to be identical, indicating absence of a reaction (formation of dokonite or langbeinte; resp.), as espected from caken. of the mol. vols. In the following systems, however, compression did result in the appearance of slight new thermal effects in the thermograms, which increased on repeated grinding and compression, and thus indicated some slight degree of chem. reaction. (2) In CaCO₃ + MgSO₄H₂O, taken either in a 21 or a 1:10 mole ratio (the latter corresponding to equal vols.), compression at 300° gave rise to an addn. effect at 850°, which might be ascribed to magnesite, although even pure kleserite sometimes shows a very slight endothermal effect at 650°, which might be ascribed to magnesite, although even pure kleserite sometimes shows a very slight endothermal effect at 600°, which might be ascribed to magnesite, although even pure kleserite sometimes shows a very slight endothermal effect at 700°, were observed both in the initial mixt. and after compression. The endothermal CaCO₃ dissoen, effect at 700° were observed both in the initial mixt. and after compression. The endothermal effect possibly due to interaction between CaO and MgSO₄. The amt. of reaction products in this system does not, at any rate, exceed 1-2%, and, consequently, these products cannot be detected by x-rays or crystallooptic methods. (3) In Na₃SO₄ + 3K₃SO₄, compression causes the endothermal effect at 575° (polymorphic transition of K₃SO₄) to disappear, whereas the Na₃SO₄ effect at 240°

remains unchanged. Furthermore, two new effects appear at 430° and at 450°; the first corresponds to decompt. of glasserite 31k,50, Na,50, whereas the 2nd might belong to transition of K,50, at a temp, lowered owing to formation of suiti soin. On 5 times repeated compression, the effect at 450° increased relative to the polymorphic transition effect at 520°. (4) In Na,50, + Ca50, 11,5140, formation of glauberite, Na,50, Ca50, was clearly indicated by the disappearance of the exothermal effect at 452°, ascribed to rearrangement of the lattice of anhyd. Ca50; the endothermal effects at 175 and at 240° (debydration of Ca50, -0.5 Hg) and transition of Na,50°, resp.) remained unchanged. A slight endothermal effect, absent in the original mixt, appeared on compression at 540°. The amt. of glauberite formed increased on repeated compression, and also on prolonged (6 hrs.) single compression. N. Thon

YANATYGUA, O.K.

USSR/Chemistry - Inorganic chemistry

Card 1/1

Pub. 40 - 21/27

Authors

Yanatyeva, O. K.

Title

Water solubility of dolomito in the presence of CO₂

Periodical

Izv. Ali SSSR. Otd. khim. nauk 6, 1119-1120, Nov-Dec 1954

Abstract

A brief report is presented on the solubility of dolomite in water in the presence of CO₂. The relation between the dolomite solubility and the partial CO₂ pressure is explained. Some experimental results obtained in dissolving dolomite in the presence of CO₂ are described. Three references: 2 USSR and 1 USA (1940-1950). Table; graphs.

Institution :

Acad. of Sc., USSR, The N. S. Kurnakov Institute of General and Inorganic

Chemistry

Submitted

April 7, 1954

IANATYEVA, U. K.

USSR/Chemistry

Card 1/2

Author

Yanatyeva, O. K.

Title

Physico-chemical characteristics of certain carbonate

species

Periodical:

Dokl. AN SSSR, 96, Ed. 4, 777 - 779, June 1954

Abstract

The investigation of the physico-chemical and solubility characteristics of carbonate rocks, necessary in solving numerous problems connected with the exploitation of the sources of these rocks, is described. An equilibrium diagram of the system, which may serve as a means of characterizing certain carbonate rocks, containing small admixtures, of sulfates and traces of chlorided, is given. The solubility of the rock will be affected to a known degree by the admixtures, contained in it (humic acid, silica, clay, etc.), however, the general rules, govern-

Dokl. AN SSSR, 96, Ed. 4, 777 - 779, June 1954 (Additional Card)

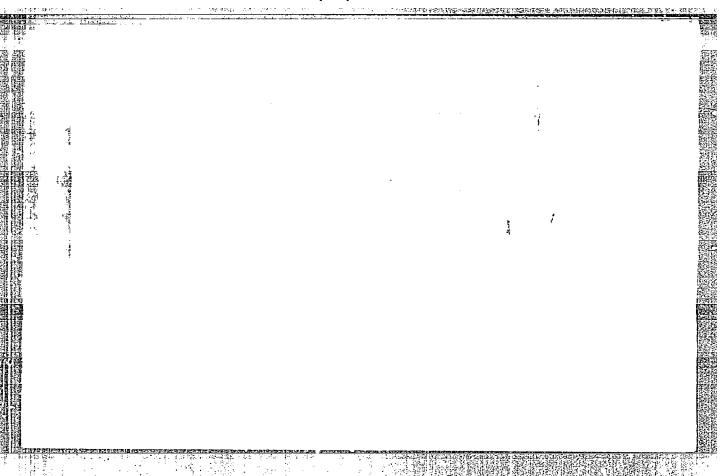
Card 2/2

Abstract : ing the solubility of carbonate species, will basically remain unchanged. Two references. Tables, graphs.

Acad. of Sc. USSR, The N. S. Kurnakov Institute of Gen.

& Inorg. Chom.

Presented by: Academician G. G. Urazov, March 9, 1954



SHUL'GINA, M.P.; KHARCHUK, O.S.; YANAT'YEVA, O.K.

New solid phases in the system: KC1-K2SO4-H2O. Izv.Sekt.fiz.-khim. anal, 26:198-210 '55. (MIRA 8:9)

1. Institut obshchey i neorganichoskoy khimii im. N.S. Kurnakova AN SSSR i Stalinskiy meditsinskiy institut im. A.M. Gor'kogo.
(Potassium salts) (Systems (Chemistry))

YAHAT'YEVA, O.K.

Solubility isotherms 0° and 55° for the system: Ca, Mg CO₃, SO₄—H₂O. Izv.Sekt.fiz.-khim.anal. 26:266-269 155. (MIRA 8:9)

1. Institut obshchey i neorganicheskoy khimii im. N.S. Kurnakova AN SSSR. (Calcium salts) (Magnesium salts) (Solubility)

USSR/Chemistry - Geochemistry

Card 1/2

Pub. 22 - 34/51

Authors

Ianatyeva, O. K.

Title

Effect of aqueous gypsum solutions on dolomite in the presence of CO

Periodical

Dok. AN SSSR 101/5, 911-912, Apr 11, 1955

Abstract

The interesting results obtained in studying the effect of pure water and aqueous gypsum solutions on dolomite (CaCO₃, MgCO₃) at various partial CO₂ pressures are outlined. A study of dolomite colubility in gypsum solutions of various concentrations showed that at a partial CO₂ pressure of about 1 atm and temperature of 25° the gypsum practically has no effect on the solubility of the double carbonate

Institution :

Acad. of Sc., USSR, The N. S. Kurnakov Inst. of Gen. and Inorg. Cham.

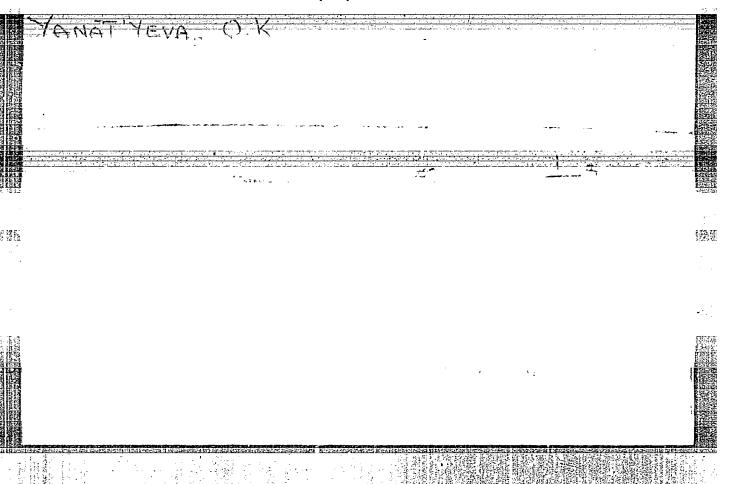
Presented by :

Academician C. C. Urazov, December 6, 1954

Card 2/2 Pub. 22 - 34/51

Periodical : Dok. AN SSSR 101/5, 911-912, Apr 11, 1955

Abstract : and behaves in the system as an indifferent component. Entirely different results were obtained for analogous mixtures at an identical temperature but at a CO₂ pressure of 0.0012 atm. Four references: 3 USSR and 1 USA (1925-1950). Graph.



USSR/Physical Chemistry. Thermodynamics, Thermochemistry, B-8 Equilibria, Physical-Chemical Analysis, Phase Transitions.

Abs Jour: O. K. Yanat'yeva, V. T. Orlova

Inst Title

Study of Equilibria in System $K_2SO_4-Na_2SO_4-MgSO_4-H_2O$

at 550

Orig Pub: Zh. neorgan. khimii, 1956, 1, No 5, 988-994

Abstract:

The solubility at 55° was studied in the systems Na₂SO₄ (I) - K_2SO_4 (KK) - M_gSO_4 (III) - H_2O and I - II - H_2O . Crystals of the relation of II : I > 3 (3.35 and 3.60) were obtained in the latter system. Their x-ray pictures differ from that of glaserite (3K2SO4.Na2SO4) (IV), which allows the authors to consider these crystals as a new phase forming at higher temperatures. Six crystallization fields were disclosed in the quaternary system, viz .: I, II, NgSO₄.6H₂O (V), Na₂SO₄.MgSO₄.4H₂O (VI), K₂SO₄.MgSO₄. 4H₂O (VII), IV and four nonvariant treble points: 1) 12.96 of II, 4.05 of I, 15.64 of III; solid phases of IV, II, VII; 2) 7.12 of II, 12.61 of I, 20.25 of III; solid

Card 1/2

ÁPPROVED FOR RELEASE: 09/01/2001

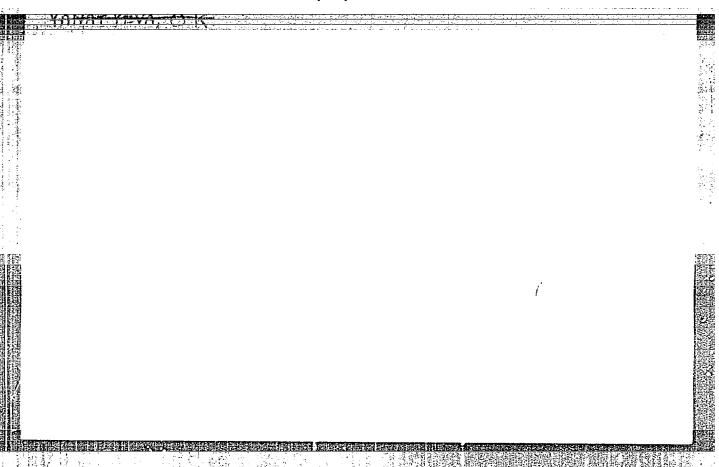
CIA-RDP86-00513R001962030004-6

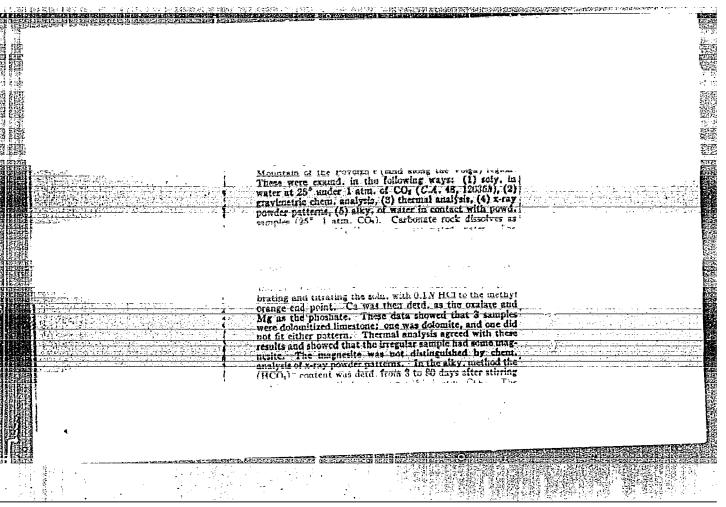
USSR/Physical Chemistry. Thermodynamics, Thermochemistry, B-8 Equilibria, Physical-Chemical Analysis, Phase Transitions

Abs Jour: Ref Zhur-Khimiya, No 5, 1957, 14707

Abstract: phases of IV, VII, V1; 3) 6.11 of II, 21.45 of I, 12.40 of III; solid phases of IV, I, V1; 4) 3.68 of II, 4.80 of I, 31.65 of III; solid phases of IV, VII, V.

Card 2/2

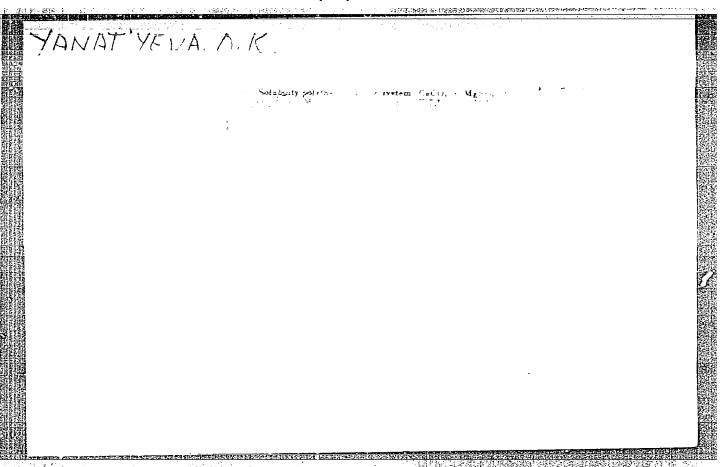




YANAT'YEVA, O.K.

Investigating the solubility of the system Ca, $N_g \parallel CO_3$, SO_4 - H_2 0 at 25° and $Pco_2 \simeq 0.0012$ atm. Zhur.neorg.khim. 2 no.9: 2183-2187 S '57. (MIRA 10:12)

1.Institut obshchey i neorganicheskoy khimii im. N.S. Kurnakova AN SSSR. (Solubility) (Systems (Chemistry)



SOY/78-3-10-28/35 Yanatyeva, O. K., Orlova, V. T. AUTHORS:

I. The Crystallization Volume of Schenite in Sea Water TITLE: K, Na, Mg II Cl, SO₄-H₂O at O^O(I.Ob"yem kristallizatsii O shenita v morskoy sisteme K, Na, Mg II Cl, SO₄-H₂O pri O^O)

Zhurnal neorganicheskoy khimii, 1958, Vol 3, Nr 10, PERIODICAL:

pp 2408-2413 (USSR)

The conditions of crystallization of schenite-ABSTRACT:

K₂SO₄. MgSO₄. 6H₂O. were investigated in the five-component system K, Na, Mg | Cl, SO₄-H₂O at O°. The solubility, viscosity and density were determined in the systems K, Na, Mg | SO₄-H₂O, K, Mg | Cl, SO₄-H₂O and K, Mg, Na | Cl, SO₄-H₂O at O°. In the system K, Na, Mg | SO₄-H₂Cho solid

solution of the glaserite type appears in the solid phase. The equilibrium diagram of the system is characterized by four

ranges of crystallization: schenite- K2SO4. MgSO4. 6H2O and

the hydrates of the sulfates of K, Na and Mg. Six

crystallization ranges of the following salts appear in the

system K, Mg || Cl, SO₄-H₂O: schenite, carnallite - KCl. MgCl₂. 6H₂O-, KCI, MgSO₄. 7H₂O, MgCl₂. 6H₂O and Card 1/2

K2SO4. H2O. The conditions of the existence of schenite in

I. The Crystallization Volume of Schenite in Sea Water K, SOV/78-3-10-28/35 Na, MgHC1, SO_4-H_2O at O

the fivecomponent system K, Na, Mg II C1, SO₄-H₂O were determined. The crystallization range of schenite is limited by six salts: glaserite (3K₂SO₄·Na₂SO₄), KC1, NaC1, K2^{SO}4·H₂O, MgSO₄·7H₂O and Na₂SO₄·1O H₂O. There are 3 figures, 3 tables, and 4 references, 3 of which are Soviet.

ASSOCIATION: Institut obshchey i neorganicheskoy khimii im.N.S.Kurnakova Akademii nauk SSSR (Institute of General and Inorganic

Chemistry imeni N.S.Kurnakov of the Academy of Sciences, USSR

SUBMITTED: May 5, 1958

Card 2/2

SOY/78-4-8-32/43

5(2) AUTHORS:

Yanat'yeva, O. K., Orlova, V. T.

TITLE:

On the Conditions of the Existence of Glaserite in the System K, Na, Mg || Cl, SO_4 - H_2O at O^O (Ob usloviyakh sushchestvovaniya glazerita v sisteme K, Na, Mg || Cl, SO_4 - H_2O pri O^O)

PERIODICAL:

Zhurnal neorganicheskov khimii, 1959, Vol. 4, Nr. 8, pp. 1903-1909 (USSR)

ABSTRACT:

The authors wrote this paper on the occasion of the 40th anniversary of the existence of the Komsomol. The double salt glaserite $(3K_2SO_4 \cdot Na_2SO_4)$ forms solid solutions with its components Na_2SO_4 and K_2SO_4 . The publication data on the temperature limits for the existence of these solid solutions deviate. It was only proved that the addition of chlorides permits the existence of glaserite at low temperatures. The investigations of the authors showed that in the systems $K_2SO_4 - Na_2SO_4 - H_2O$ and $K_2SO_4 - Na_2SO_4 - H_2O$ no glaserite is formed. In order to determine the solid phases of the system mentioned first, which represents an important member of the marine

Card 1/3

SOV/78-4-8-32/43 On the Conditions of the Existence of Glaserite in the System K, Na, $\mu_{\rm S}$ | Cl, SO₄ - H₂O at O⁰

five-component system K, Na, Mg \parallel Cl, SO₄ - H₂O, the solubility isothermal line was investigated at 0°. In contrast to data from publications (Ref 2) K2504.H20 and Na2S04.10H20 were found to be solid phases. Glascrite is formed only at 00 and only in the presence of certain amounts of chlorides (KCl, NaCl and MgCl). It does not crystallize from the sulphate solutions of K. Na and Mg. The range of existence of glaserite is found in the systems K, Na | C1, S0₄ - H_2 0 and K, Na, Mg | C1, S0₄ - H_2 0 at a chloride concentration of 8-10% and it increases with their increasing concentration. The crystallization ranges of glaserite, potassium sulphate monohydrate and Glauber's salts. were determined in the five-component complex at 00. The small range of glaserite penetrates conically into the range of the two sulphates which occupy the maximum part of the liagram. The results are important for the production of pure salts in the processing of crude salts of marine origin. There are 5 figures, 3 tables, and 7 references, 5 of which are Soviet.

Card 2/3

50V/78-4-8-32/43On the Conditions of the Existence of Glaserite in the System K, Na, Mg ||

ASSOCIATION:

C1, $SO_4 - H_2O$ at O°

Institut obshchey i neorganicheskoy khimii im. N. S. Kurnakova

Akademii nauk SSSR (Institute of General and Inorganic Chemistry imeni N. S. Kurnakov of the Academy of Sciences

USSR)

SUBMITTED:

May 5, 1958

Card 3/3

YAMA	TYENA O.K.	
	COUNTRY & GDR	
	CATEGORY :	
	ARS. JOUR. : RZKhim., No. 5 1960, No. 16959	
	AUTHOR : Janat'yeva, O. K. and Orlova, V. T.	
	INST. Not given Equilibria in the Salt Water System K, Na, Mg Cl, SO ₄ -H ₂ O at 55°	
	CRIG. PUB. : Freiberger Forschungsh, A, No 123, 119-126 (1959)	
	ABSTRACT : Solubility, viscosity, and density characteristics in the systems K, Mg Cl, SO _L -H ₂ O and K, Na, Mg Cl, SO _L -H ₂ O have been investigated at 55°. The complete solubility diagram for 5-component salt	
	water, including 15 crystallization volumes of the salts [sic], has been obtained. From authors' summary	
	CARD: 1/1 35	

YANATIYEVA. O.K.

70° Solubility isotherm for the system Ca, Mg/ CO_3 , SO_L - B₂O₂. Zhur. neorg. khim. 5 no.11:2582-2586 N '60. (HIRA 213:11)

1. Institut obshchey i neorganicheskoy khimii imeni N.S.Kurnakova Akademii nauk SSSR.

(Systems (Chemistry))

YANAT'YEVA, O.K.; RASSONSKAYA, I.S.

Metastable equilibria and solid phases in the system CaCO3 - MgCO3 - H2O. Zhur.neorg.khim. 6 no.6:1424-1430 Je '61. (MIRA 14:11) (Calcium carbonate) (Magnesium carbonate) (Phase rule and equilibrium)

YANAT'YEVA, O.K.; RAPOPORT, G.S.; RASSONSKAYA, I.S.; USTINOVA, M.B.

AND AND THE PARTY OF THE PARTY

Physicochemical investigations of calcium and magnesium carbonates appropriate to the conditions of sovelit production. Zhur.prikl. khim. 34 no.10:2347-2350 0 161. (MIRA 14:11)

1. Insitut obshchey i neorganicheskoy khimii imeni N.S.Kurnakova AN SSSR.

(Sovelit) (Calcium carbonate) (Magnesium carbonate)

YANAT'YEVA, O.K.

Metastable equilibria in the system CaCO3 - MgCO3 - HgO. Izv. AN SSSR. Otd. khim. nauk no. 1:18C-182 Ja '61. (MIRA 14:2)

1. Institut obshchey i neorganicheskoy khimii im.H.S. Kurnakova AN SSSR.

(Calcium carbonate) (Magnesium carbonate)

YANAT'YEVA, O.K.; ORLOVA, V.T.

Reciprocal system consisting of K, Na, and Mg chlorides and sulfates at 100°. Zhur.neorg.khim. 6 no.12:2816-2817 D 61.

(MIRA 14:12)

1. Institut obshchey i neorganicheskoy khimii imeni Kurnakova AN SSSR.

(Systems (Chemistry))

YANAT'YI'VA, O.K .; ORLOVA, V.T.

Bolubility polytherm of the system K, Na, Mg 1, SC 4 - F. ...
Dokl. AN SSSR 142 no.1:102-104 Ja 162. (MIRA 14:12)

1. Institut obshchey i neorganicheskoy khimii im. N.S. Kurnakova AN SSSR. Predstavleno akademikom I.I. Chernyayevym.

(Systems (Chemistry)) (Crystallization)

ORLOVA, V.T.; YANAT'MEVA, O.K.

Interaction of salts in the system Na, Mg/C1, SO₄ - H₂O at 100°. Zhur. neorg. khim. 8 no.7:1789-1791 J1 '63.

(Salts) (Systems(Chemistry))

S/236/63/000/001/002/015 D251/D308

AUTHORS: Kalade, Yu. A., Shugurov, V. K. and Yanavichyus, A. I.

TITLE: Elimination of the motion of the center of mass in a system of identical particles

SOURCE: Akademiya nauk Litovskoy SSR. Trudy. Seriya B, no. 1, 1963, 13-20

TEXT: The authors consider a means of eliminating the non-single valuedness and the consequent false states which arise in the determination of the energy of the states of a system of identical particles. A method is given for constructing the wave function of the relative motion in a system of N such particles, the mass of each of which is taken to be unity. By means of a non-singular transformation it is possible to eliminate the effect at the center of mass. Then, in operator form

$$\underline{\mathbf{M}} = \underline{\mathbf{1}}_{\mathbf{c}} + \underline{\mathbf{M}}_{\mathbf{R}}, \quad \underline{\mathbf{M}}_{\mathbf{R}} = \underline{\mathbf{s}}_{\mathbf{N}} + \underline{\mathbf{M}} \quad (\mathbf{N} - 1)$$
 (3)

Card 1/3

\$/236/63/000/001/002/015 D251/D308

Elimination of the ...

$$\underline{M} (N-1) = \sum_{i=1}^{N-1} (\underline{l}_i + \underline{s}_i), \quad \underline{l}_i = [\underline{r}_i \underline{p}_i]$$
 (4)

where \underline{M} is the total moment of momentum, $\underline{1}_{C}$ is the moment corresponding to the motion of the center of the mass, \underline{M}_{R} is the relative moment, and \underline{s}_{i} is the spin moment. The operator $\underline{M}(N-1)$ does not act on the N-th particle, and hence it is possible to take any particle as the 'last' and to use a coordinate system

$$\underline{r}_{1} = \underline{r}_{1}^{1} - \underline{r}_{N}^{1}, \quad 1 = 1, \dots, N - 1$$
 (10)

which gives the position of n-1 particles in terms of the Nth, and is best suited to the problem. The wave function

Card 2/3

S/236/63/000/001/002/015

$$\Psi = \underline{A} \left\{ \Psi(x_1, x_2, ..., x_{N-1}) \Gamma(\sigma_N \tau_N) + (-1)^{N-1} \Psi(x_N, x_1, ..., x_{N-2}) \Gamma(\sigma_{N-1} \tau_{N-1}) + ... \right\}$$
(6)

is constructed using Clebsh-Gordon coefficients and genealogy coefficients. The calculation of the matrix elements is discussed, and a worked example is given. There is 1 table.

TENEROP) thinging.

> ASSOCIATION: Institut fiziki i matematiki Akademii nauk Litovskoy SSR (Institute of Physics and Mathematics of the AS Lithuanian SSR); Vil'nyusskiy gosudarstvennyi universitet im. V. Kapsukasa (Vil'nyus State University im. V. Kapsukas)

July 7, 1962

Card 3/3

5 5110

2444,3 \$/091/61/000/006/004/015 B101/B201

AUTHORS &

Korenwan, 1. M., Tumanor, A. A., Yanayeva, V. Ya.

TITLES

Composition and solubility of some complex compounds of

undlum

PERIODICAL:

Referativnyy zhurnal. Khimiya, nc. 6, 1961, 106, arstrar 6843 (6V43). ("Tr. po khimil i khim. tekhnol. (Gor'kiy)", 1960, "yp. 1. 86 - 90)

TEXT: Complex compounds of In and SON with antipyrine pyramiden, and diantipyryl methane have been synthesized. Their composition was be expressed by formulaes $[In(C_{11}H_{12}ON_2)_3](SCN)_3$; $[In_2(C_{13}H_{17}ON_3)_3](SCN)_6$ 1 [Ing(C23H24O2N4)3] (SCN)6. The solubility of the complex compounds concerned has been determined in water, sulfurio acid, and acetic acid of different concentrations, and also in some organic solvents. The formation of $[\ln_2(c_{23}H_{24}O_2N_4)_3]$ (SCN), has served to determine small amounts of Abstracter's notes Complete translation,

Card 1/1

CIA-RDP86-00513R001962030004-6" APPROVED FOR RELEASE: 09/01/2001

EWI(I)/EWALD) 21521-66 SOURCE CODE: 0109/66/011/002/0211/0218 ACC NR: AP6007498 AUTHOR: Voronin, E. S.; Yanayt, Yu. A. 30 ORG: none TITLE: Phase switching in a three-state parametric trigger SOURCE: Radiotekhnika i elektronika, v. 11, no. 2, 1966, 211-218 TOPIC TAGS: flip flop circuit, parametric oscillator parametric oscillator is investigated. It can be excited on ABSTRACT: A two-tank one of three stable types of oscillations having the same frequency but phase-shifted by $2\pi/3$ from one another. Such an oscillator can be used in computers as a 3-position trigger. Formulas describing the operation and phase-switching of the oscillator by a harmonic external signal are derived. It is found that the external signals of suitable amplitude and phase can effect switching the trigger from one of its stable states into another. Limits of the stable operation are determined. An experimental verification included a hookup with balanced diodes, two tank dircuits tuned to 1 Mc and 2 Mc; pumping frequency, 3 Mc; pumping signal amplitude, 1.5 v. Reverse-blased Si D-205 diodes were used as modulating capacitors. External 300-1500-microsec pulses with adjustable carrier frequency were employed. Stable switching of the trigger on a low-power signal was achieved. Orig. art. has: 3 figures and 36 formulas. SUB CODE: 09/ SUBM DATE: 090ct64/ ORIG REF: 004/ ATD PRESS: 4222 Cord 1/1dds

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YANBAYEV, T.A.; TALIKOV, N.A.

Clinic connatomical comparisons of renal changes in suppurative processes in the body. Khirurgiia 39 no.8:98-100 Ag '63.

(MIRA 17:6)

1. Iz khirurgicheskogo otdeleniya Tashkentskoy klinicheskoy bol'nitsy neotlozhnoy pomoshchi (nauchnyy rukovoditel'-prof. S.A. Masumov; glavnyy vrach - zasluzhennyy vrach Uzbekskoy SSR T.Sh. Alimov).

YANBAYEV, T.A.; TALIKOV, N.A.

Clini: oanatomical comparisons of renal changes in suppurative processes in the body. Khirurgiia 39 no.8:98-100 Ag '63. (MIRA 17:6)

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[Rheumatic fever and heart defects] Rovmatizm i poroki serdtsa. Tashkent, Meditsina, 1965. 151 p.

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YANBAYEVA, Kh. I., kand.med.nauk; GULYAMUVA, S.G., aspirant

Use of phonocardiography in the diagnosis of mitral and aortal heart failure. Med. zhur. Uzb. no.8:92-97 Ag 161. (NIKA 15:1)

1. Iz Instituta krayevoy i eksperimental noy meditsiny AN UzSSR (direktor - G.M.Makhkamov). (HEART...VALVFS...DISEASES) (HEART...SOUNDS)

YANBAYEVA, Kh.I.; LEVINA, L.M., rod.; AGZAMOV, K., tekhn. rod. [Heart defects] Poroki serdtsa. Tashkent, Medgiz, UzSSR, 1962. 43 p. (MIRA 15:7) 1962. 43 p. (HEART-DISEASES)

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YANBAYEVA, Kh.I., kand. med. nauk

Importance of the diphenylamine reaction in the diagnosis of the activity of the rheumatic process. Vop. revm. 3 no.3:71-74
J1-S'63
(MIPA 17:3)

1. Iz Instituta krayevoy i eksperimental noy meditsiny (dir. - prof. G.M. Makhkamov) AN Uzbekskoy SSR i kafedry gospital noy terapii lechebnogo fakul teta (zav. - chlen-korrespondent AMN 55R prof. Z.I. Umidova) Tashkentskogo meditsinskogo instituta.

YANBAYEVA, Kh.V.

Capillary permeability in rheumatic fever. Trudy Inst. kraev. eksper. med. no.3:57-64 61. (MIMA 15:5) (CAPILLARIES-PERMEABILITY) (RHEUMATIC FEVER)

YANBAYEVA, T.A.

Functional conditions of the kidneys in suppurative surgical diseases. Khirurgiia 36 no.11:138-139 N *60. (MIRA 13:12)

1. Iz kafedry gospital noy khirurgii (zav. - prof. S.A. Masumov)
Tashkentskogo meditsinskogo instituta.
(KIDNEYS)

YANBORISOV, R., kapitan-leytenant

Petty officers are champions of regulation procedure on ship.

Komm. Vooruzh. Sil 3 no.18:62-66 S '63. (MIRA 16:10)

(Naval discipline)

25(5) AUTHOR: SOV/117-59-2-13/27 Yanbukhtin, A.Kh., Section Chief in a Machine Shop

TITLE:

From the Experience of a Section's Work Experience in the

Field of Group Freduction (Iz opyta raboty uchastka

po gruppovoy tekimorogiti

PERIODICAL:

Mashinostroitel*, 1959, Nr 2, pp 22-23 (USSR)

ABSTRACT:

The author tells of the experience acquired by the Machine Shop of an unidentified plant in the introduction of the group production method, which reduced the number of brigade leaders by 45%, improved the quality and rate of production and improved the planning work. The article is very general. There

is 1 photo.

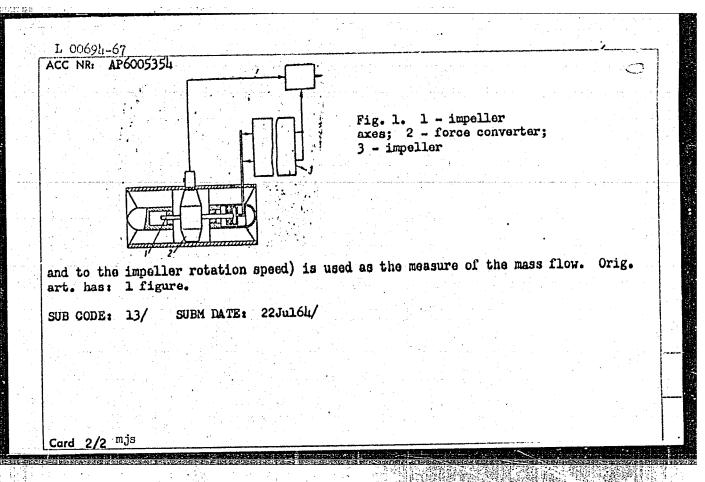
Card 1/1

ABSTRACT: This Author Certificate presents a turbing flow ater containing a retarded impeller, a rotation angle detector, and a divice creating the retarding moment. To increase the reliability, to guarantee coaplete heracticity of the detector case, and to isolate the electric portion of we flowster from the controlled medium, the rotation angle detector and the device creating the retarding moment are electromagnatic systems achieving industion coupling with the impeller contained in a baffle (see Fig. 1 on the Eacleaure). To increase reliability and to insure the possibility of operation under conditions of vibration, shock, and elevated temperatures, the impeller suspension is a tortion tube. To insure the possibility of measuring the flow of liquids moving in both forward and reverse directions, the supply source of the davice creating the retarding moment is commected in the diagonal of a bridge whose two adjacent arms are a slide wire.

EWT(d)/EWP(v)/EWP(k)/EWP(h)/EWP(l) SOURCE CODE: UR/0413/66/000/001/0094/0095 ACC NR: AP6005354 AUTHORS: Suvorov, V. P.; Kozlov. 7. I.; Yanbukhtin, I. R.; Makarevich, O. P. ORG: none TITLE: A device for the automatic control of mass flow. Class 42, No. 177648 /announced by Scientific Research Institute of Thermal Power Ingineering Instrument Manufacture (Nauchno-issledovatel'skiy institut teploenergeticheskogo priborostroyeniya)7 SOURCE: Izobreteniya, promyshlennyye obraztsy, tovarnyye znaki, no. 1, 1966, 94-95 TOPIC TAGS: flow regulator, flow measurement, flow control, fluid flow, audomatic control design ABSTRACT: This Author Certificate presents a device for automatic control of mass flow. The device contains a sensitive element made in the form of a single impeller rotating with a speed proportional to the volume flow, capable of being displaced along the axis by an amount proportional to the velocity head of the flow. The device also has a measuring instrument (see Fig. 1). The design increases the precision of the measurement accuracy in operation and provides the capability of measuring reversible flows. The axes of the impeller are kinematically connected with a power. converter. This power converter creates a force which compensates the axial movement of the impeller. The ratio of the signals (proportional to the compensating force

Card 1/2

681.121.531.751.



ZVEREV, A.G.; POPOV, V.F.; FADEYEV, I.I.; BABUSHKIN, V.I.; BERLOVICH, I.L.;
BOCHKO, A.M.; BURLACHENKO, S.Ye.; GARBUZOV, V.F.; DMITRICHEV, P.Ya.;
DUNDUKOV, G.F.; ZLOBIN, I.D.; KOROVUSHKIN, A.K.; KORSHUHOV, A.I.;
KUZIN, M.G.; KUTUZOV, G.A.; LYSKOVICH, A.A.; MASHTAKOV, A.M.;
MIKHEYEV, V.Ye.; NIKEL'BERG, P.M.; POSKONOV, A.A.; ROMAROV, G.V.;
SOSIN, I.F.; SOSNOVSKIY, V.V.; POVOLOTSKIY, M.M.; URYUPIN, F.A.;
KHARIONOVSKIY, A.I.; CHULKOV, N.S.; SHESHERO, N.A.; SHITOV, A.P.;
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Synthesis of substituted 4-(godiethylamino-comethylbutylamino)
2-styrylquinolines. Zbur.ob.knim. 32 no.7:2169-2177 Jl :62.
(MIRA 15:7)

1. Vsesoyuznyy nauchno-issledovateliskiy khimiko-farmatsevticheskiy institut imeni S.Ordzhonikidze.

(Q.i.noline)

YANBUKHTIN, Sh.T.

Distribution of plants of the alcohol, liqueur and vodka industries.

Spirt. prom. 23 no.3:22-23 '57. (MIRA 10:6)

1. Rosglavspirt. (Liquor industry)

YANI	BUKHTIN, Sh.T.							
Urgent tasks of economic councils of the R.S.F.S.R. with regard to the alcohol industry. Spirt.prom. 23 no.8:32-33 157. (MIRA 11:1)								
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